



RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/612,468
Source: OIPE
Date Processed by STIC: 7/29/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission

User Manual - ePAVE)

2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

3. Hand Carry directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

Or

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202

4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/612,468

DATE: 07/29/2003

TIME: 13:35:30

Input Set : A:\EP.txt

Output Set: N:\CRF4\07292003\J612468.raw

3 <110> APPLICANT: Zhang, Jingwu Z.
 4 Ho, Walter Kowk Keung
 5 Zhang, Dongqing
 6 Sun, Wei
 W--> 7 <120> TITLE OF INVENTION: T Cell Receptor CDR3 Sequence and Methods for Detecting and Treating
 W--> 8 Rheumatoid Arthritis
 W--> 9 <130> FILE REFERENCE: 057186.000003
 W--> 10 <140> CURRENT APPLICATION NUMBER:
 C--> 11 <141> CURRENT FILING DATE: 2003-07-02
 W--> 11 <151> PRIOR FILING DATE: 2002-07-02
 W--> 12 <160> NUMBER OF SEQ ID: 168

insert this mandatory numeric identifier and its response wherever <151>

ERRORED SEQUENCES

775 <210> SEQ ID NO: 66
 776 <211> LENGTH: (21) 19 shown below
 777 <212> TYPE: DNA
 778 <213> ORGANISM: Artificial
 OK-> 779 <220> FEATURE:
 780 <221> NAME/KEY: primer_bind
 781 <223> OTHER INFORMATION: FAM (expand)-labeled BJ primer used for run-off reactions
 OK-> 782 <400> SEQUENCE: 66
 E--> 784 ggagagtcga gttccatca 19
 1416 <210> SEQ ID NO: 114
 1417 <211> LENGTH: 63
 1418 <212> TYPE: DNA
 1419 <213> ORGANISM: Artificial
 W--> 1420 <220> FEATURE:
 W--> 1421 <221> NAME/KEY:
 1422 <223> OTHER INFORMATION: CDR3 nucleic acid sequence of BV14 clonotype derived from ST specimen of
 1423 RA patients
 OK-> 1424 <400> SEQUENCE: 114
 1426 tacttctgtg ccagcagtc caccgaggac aggggaaata atgagcagtt cttcgggcca 60
 E--> 1427 gga 63< insert
 1445 <210> SEQ ID NO: 116
 1446 <211> LENGTH: 63
 1447 <212> TYPE: DNA
 1448 <213> ORGANISM: Artificial p.3
 W--> 1449 <220> FEATURE:
 W--> 1450 <221> NAME/KEY:
 1451 <223> OTHER INFORMATION: CDR3 nucleic acid sequence of BV14 clonotype derived from

ST specimen of
1452 RA patients

RAW SEQUENCE LISTING

DATE: 07/29/2003

PATENT APPLICATION: US/10/612,468

TIME: 13:35:30

Input Set : A:\EP.txt

Output Set: N:\CRF4\07292003\J612468.raw

W--> 1453 <400> SEQUENCE: 116

1455 tactttctgtg ccagcagttc cccaatagcg gggagctcca atgagcagtt cttcggggcca 60

E--> 1456 gga

63<- insert

1473 <210> SEQ ID NO: 118

1474 <211> LENGTH: 63

1475 <212> TYPE: DNA

1476 <213> ORGANISM: Artificial

W--> 1477 <220> FEATURE:

W--> 1478 <221> NAME/KEY:

1479 <223> OTHER INFORMATION: CDR3 nucleic acid sequence of BV14 clonotype derived from
ST specimen of

1480 RA patients

W--> 1481 <400> SEQUENCE: 118

1483 tactttctgtg ccagcagttt ctggggcccct acggacaata atgagcagtt cttcggggcca 60

E--> 1484 gga

63<- insert

1529 <210> SEQ ID NO: 122

1530 <211> LENGTH: 63

1531 <212> TYPE: DNA

1532 <213> ORGANISM: Artificial

W--> 1533 <220> FEATURE:

W--> 1534 <221> NAME/KEY:

1535 <223> OTHER INFORMATION: CDR3 nucleic acid sequence of BV14 clonotype derived from
ST specimen of

1536 RA patients

W--> 1537 <400> SEQUENCE: 122

1539 tactttctgtg ccagcagccc tagggagggc ctctcaata atgagcagtt cttcggggcca 60

E--> 1540 gga

63<- insert

1888 <210> SEQ ID NO: 148

1889 <211> LENGTH: 61

1890 <212> TYPE: DNA

1891 <213> ORGANISM: Artificial

W--> 1892 <220> FEATURE:

W--> 1893 <221> NAME/KEY:

1894 <223> OTHER INFORMATION: CDR3 nucleic acid sequence of BV14 clonotype derived from
ST specimen of

1895 RA patients

W--> 1896 <400> SEQUENCE: 148

1898 tactttctgtg ccagcagtc cccgactagcg ggagataaag gagcagtact tcggggccggg 60

E--> 1899 c

61<- insert

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/612,468

DATE: 07/29/2003
TIME: 13:35:31

Input Set : A:\EP.txt
Output Set: N:\CRF4\07292003\J612468.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 21
Seq#:3; Line(s) 44
Seq#:4; Line(s) 58
Seq#:75; Line(s) 881
Seq#:77; Line(s) 910
Seq#:79; Line(s) 939
Seq#:81; Line(s) 967
Seq#:83; Line(s) 997
Seq#:85; Line(s) 1025
Seq#:87; Line(s) 1052
Seq#:89; Line(s) 1079
Seq#:91; Line(s) 1106
Seq#:93; Line(s) 1133
Seq#:95; Line(s) 1160
Seq#:97; Line(s) 1187
Seq#:99; Line(s) 1214
Seq#:101; Line(s) 1241
Seq#:103; Line(s) 1268
Seq#:105; Line(s) 1295
Seq#:107; Line(s) 1323
Seq#:109; Line(s) 1351
Seq#:111; Line(s) 1378
Seq#:113; Line(s) 1406
Seq#:115; Line(s) 1436
Seq#:117; Line(s) 1464
Seq#:119; Line(s) 1492
Seq#:121; Line(s) 1520
Seq#:123; Line(s) 1549
Seq#:125; Line(s) 1577
Seq#:127; Line(s) 1605
Seq#:129; Line(s) 1632
Seq#:131; Line(s) 1659
Seq#:133; Line(s) 1686
Seq#:135; Line(s) 1713
Seq#:137; Line(s) 1740
Seq#:139; Line(s) 1767
Seq#:141; Line(s) 1795
Seq#:143; Line(s) 1822
Seq#:145; Line(s) 1851
Seq#:147; Line(s) 1879
Seq#:149; Line(s) 1908
Seq#:151; Line(s) 1936
Seq#:153; Line(s) 1964

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/612,468

DATE: 07/29/2003
TIME: 13:35:31

Input Set : A:\EP.txt

Output Set: N:\CRF4\07292003\J612468.raw

Seq#:155; Line(s) 1992
Seq#:157; Line(s) 2020
Seq#:159; Line(s) 2047
Seq#:161; Line(s) 2075
Seq#:163; Line(s) 2103
Seq#:165; Line(s) 2131
Seq#:167; Line(s) 2159

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31
Seq#:32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55
Seq#:56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,76,78,80,82,84
Seq#:86,88,90,92,94,96,98,100,102,104,106,108,110,112,114,116,118,120,122,124
Seq#:126,128,130,132,134,136,138,140,142,144,146,148,150,152,154,156,158,160
Seq#:162,164,166,168

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/612,468

DATE: 07/29/2003

TIME: 13:35:31

Input Set : A:\EP.txt

Output Set: N:\CRF4\07292003\J612468.raw

L:7 M:283 W: Missing Blank Line separator, <120> field identifier
L:9 M:283 W: Missing Blank Line separator, <130> field identifier
L:10 M:283 W: Missing Blank Line separator, <140> field identifier
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:11 M:289 W: Identifier Missing or Out-Of-Order, <150> PRIOR APP NO
L:12 M:283 W: Missing Blank Line separator, <160> field identifier
L:18 M:283 W: Missing Blank Line separator, <220> field identifier
L:19 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1
L:22 M:283 W: Missing Blank Line separator, <400> field identifier
L:30 M:283 W: Missing Blank Line separator, <220> field identifier
L:31 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:2
L:34 M:283 W: Missing Blank Line separator, <400> field identifier
L:42 M:283 W: Missing Blank Line separator, <220> field identifier
L:46 M:283 W: Missing Blank Line separator, <400> field identifier
L:56 M:283 W: Missing Blank Line separator, <220> field identifier
L:60 M:283 W: Missing Blank Line separator, <400> field identifier
L:69 M:283 W: Missing Blank Line separator, <220> field identifier
L:70 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5
L:73 M:283 W: Missing Blank Line separator, <400> field identifier
L:82 M:283 W: Missing Blank Line separator, <220> field identifier
L:86 M:283 W: Missing Blank Line separator, <400> field identifier
L:109 M:283 W: Missing Blank Line separator, <220> field identifier
L:113 M:283 W: Missing Blank Line separator, <400> field identifier
L:137 M:283 W: Missing Blank Line separator, <220> field identifier
L:140 M:283 W: Missing Blank Line separator, <400> field identifier
L:148 M:283 W: Missing Blank Line separator, <220> field identifier
L:151 M:283 W: Missing Blank Line separator, <400> field identifier
L:159 M:283 W: Missing Blank Line separator, <220> field identifier
L:162 M:283 W: Missing Blank Line separator, <400> field identifier
L:170 M:283 W: Missing Blank Line separator, <220> field identifier
L:173 M:283 W: Missing Blank Line separator, <400> field identifier
L:181 M:283 W: Missing Blank Line separator, <220> field identifier
L:184 M:283 W: Missing Blank Line separator, <400> field identifier
L:192 M:283 W: Missing Blank Line separator, <220> field identifier
L:195 M:283 W: Missing Blank Line separator, <400> field identifier
L:203 M:283 W: Missing Blank Line separator, <220> field identifier
L:206 M:283 W: Missing Blank Line separator, <400> field identifier
L:215 M:283 W: Missing Blank Line separator, <220> field identifier
L:218 M:283 W: Missing Blank Line separator, <400> field identifier
L:226 M:283 W: Missing Blank Line separator, <220> field identifier
L:229 M:283 W: Missing Blank Line separator, <400> field identifier
L:237 M:283 W: Missing Blank Line separator, <220> field identifier
L:240 M:283 W: Missing Blank Line separator, <400> field identifier
L:248 M:283 W: Missing Blank Line separator, <220> field identifier
L:251 M:283 W: Missing Blank Line separator, <400> field identifier
L:259 M:283 W: Missing Blank Line separator, <220> field identifier
L:262 M:283 W: Missing Blank Line separator, <400> field identifier
L:270 M:283 W: Missing Blank Line separator, <220> field identifier

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/612,468

DATE: 07/29/2003

TIME: 13:35:31

Input Set : A:\EP.txt

Output Set: N:\CRF4\07292003\J612468.raw

L:273 M:283 W: Missing Blank Line separator, <400> field identifier
L:281 M:283 W: Missing Blank Line separator, <220> field identifier
L:284 M:283 W: Missing Blank Line separator, <400> field identifier
L:292 M:283 W: Missing Blank Line separator, <220> field identifier
L:295 M:283 W: Missing Blank Line separator, <400> field identifier
L:303 M:283 W: Missing Blank Line separator, <220> field identifier
L:306 M:283 W: Missing Blank Line separator, <400> field identifier
L:784 M:252 E: No. of Seq. differs, <211> LENGTH:Input:21 Found:19 SEQ:66
L:896 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:76
L:925 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:78
L:953 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:80
L:982 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:82
L:1011 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:84
L:1039 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:86
L:1066 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:88
L:1093 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:90
L:1120 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:92
L:1147 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:94
L:1174 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:96
L:1201 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:98
L:1228 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:100
L:1254 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:102
L:1282 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:104
L:1310 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:106
L:1338 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:108
L:1365 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:110
L:1392 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:112
L:1421 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:114
L:1427 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:63 SEQ:114
L:1450 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:116
L:1456 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:63 SEQ:116
L:1478 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:118
L:1484 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:63 SEQ:118
L:1507 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:120
L:1534 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:122
L:1540 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:63 SEQ:122
L:1563 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:124
L:1591 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:126
L:1619 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:128
L:1646 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:130
L:1673 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:132
L:1700 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:134
L:1727 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:136
L:1754 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:138
L:1781 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:140
L:1809 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:142
L:1837 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:144
L:1865 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:146
L:1893 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:148

VERIFICATION SUMMARY

DATE: 07/29/2003

PATENT APPLICATION: US/10/612,468

TIME: 13:35:31

Input Set : A:\EP.txt

Output Set: N:\CRF4\07292003\J612468.raw

L:1899 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:61 SEQ:148 (

L:1923 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:150

L:1950 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:152

L:1978 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:154

L:2007 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:156

L:2034 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:158

L:2061 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:160

L:2089 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:162

L:2117 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:164

L:2145 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:166

L:2173 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:168